

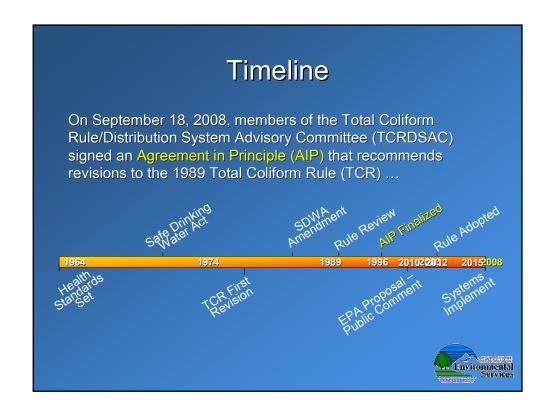
"If we get it right, the new [Total Coliform Rule] will be simpler, less confusing for our customers, and more proactive."

- Carrie Lewis
Milwaukee Water Works
AWWA Rep. for TCR Advisory Comm

Presentation Goals

- Background of TCR Timeline
- Review <u>Proposed</u> Construct of Revisions
- Other Related Topics: Overlap with Groundwater Rule, More Info on Bacteria, Historic Data for NH, Distribution System Issues
- Your Questions





The Total Coliform Rule

About the Current Rule:

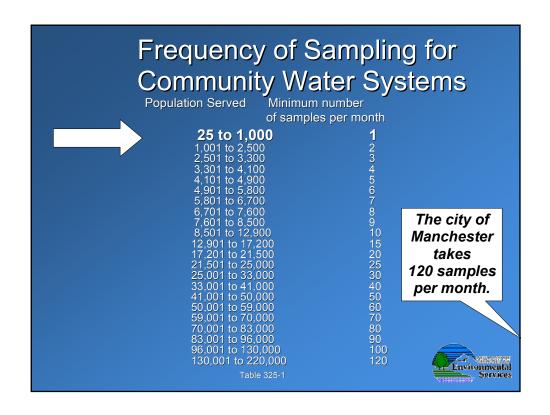
- Requires all public water systems to monitor for the presence of total coliforms in the distribution system.
- Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system.
- Covers: Sampling frequency, issuance of violations, public notice requirements.

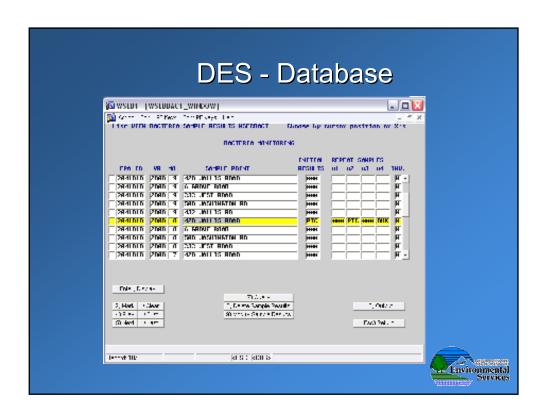


The Total Coliform Rule

- Applicable State Rules:
 - Env-Ws 310-316 Drinking Water Quality Standards
 - Env-Ws 320-339 Monitoring, Reporting, Compliance Lab Methods
 - Env-Ws 351-359 Public Notification by Public Water Systems







Violations

- Maximum Contaminant Level:
 - For a system which collects 40 or more samples per month: no more than 5.0 percent of the samples
 - For a system which collect less than 40 samples per month: no more than one sample collected
- Monitoring and Reporting:
 - Major Violation
 - Minor Violation
- Public Notice: Standard and Acute notices, type of system determines delivery

Key Points

- Communication, know who to talk to.
- Make sure of your sampling procedures.
- Know which sampling forms to use.
- Know how to carry out public notification.
- Take extra measures to protect your customers.



- Overall Shift in Focus
 - <u>From</u> monitoring results leading to public notification
 - <u>To</u> monitoring results leading to investigation and corrective action
- Benefits:
 - More proactive approach to public health protection
 - Less confusion associated with PN actions for TC violations



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

Proposed Revision

- Monitoring Frequency
 - No monitoring changes for systems collecting > 5 samples per month (serving > 4,100 people)
 - Changes in monitoring requirements for small systems
 - Routine sampling still based on pop.
 - Repeats (from 4 to 3) *Source sample must be taken for GWS to comply with Groundwater Rule
 - Additional routines (if quarterly from 5 to 3)
 - Flexibility in sample siting plans



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

Reduced monitoring

- Criteria will be more stringent:
- Annual Sanitary Surveys or level 2 assessment
- Clean sampling history (12 months)
- Cross connection program
- Meet disinfection criteria (if applicable)
- Have a licensed operator (for non-community)



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

Proposed Revisions

- Violations
 - Use TC as part of an overall Treatment Technique (TT)
 - No MCLG/MCL for Total Coliform (Major change)
 - TC threshold exceedence triggers assessment and corrective action (of any deficiency found)
 - TT violation if assessment or corrective action is not completed (requiring public notice)
 - Retains MCLG=0 for E.coli and current MCL associated with presence of TC/E.coli – no longer use Fecal Coliforms.



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

- Purpose of Assessments
 - Proactively enhance public health
 - Identify sanitary deficiencies
 - Identify incorrect monitoring practices
 - Level 1 done by PWS
 - Level 2 done by approved operator/consultant
 - Reviewed by DES to:
 - Establish that the problem has been corrected
 - Determine if the likely cause has been identified



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

Proposed Revisions

Questions from Assessments

- 1. Have any of the following occurred at relevant facilities prior to the collection of TC samples?
- 2. Have there been any recent changes?
- 3. Evaluate sample site
- 4. Sample protocol followed
- 5. Distribution system
- 6. Storage tank
- 7. Treatment process (if applicable)
- 8. Source Well
- 9. Source Spring



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

- Public Notice
 - E. Coli. (same as current rule)
 - Treatment Technique Violation
 - Monitoring Violation (missed sample)
 - Reporting Violation (missed assess)



Source: AWWA Webcast Program: TCR Proposed Revisions & Potential Impacts

Resources

- On-line:
 - DES: <u>www.des.nh.gov/organization/divisions/water/dwgb/index.htm</u>
 - EPA:

WWw.epa.gov/ogwdw000/disinfection/tcr/regulation_revisions.html

- CDC: www.cdc.gov/ecoli/
- Granite State Rural Water: (603) 753-4055
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